Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## UTILITY **PATENT APPLICATION**

Attorney Docket No. SD7151/S98758 First Inventor Rajen Chanchani

TRANSMITTAL		Title	Heterogeneo	ously Inte	egrated Sys	tem-on-	a-Chip			
(Only for new nonprovisional applications under 37 CFR 1.53(b))			Express Mail Label No. EV332388275US							
APPLIC	CATION ELEMENTS		45	DDESS TO		nissioner for I	Patents			
See MPEP chapter 600 concerning utility patent application contents.			AL	ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450						
1.				7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on:						
- Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the invention - Brief Description of the Drawings (if filed) - Detailed Description				i. CD-ROM or CD-R (2 copies); or  I i. paper  c. Statements verifying identity of above copies						
- Claim(s) - Abstract of the Disc	closure			ACCOMPA	NYING	APPLICATI	ON PA	RTS		
			9.	Assignm	nent Papers	(cover sheet &	document(	s))		
			10.		3.753(b) State is an as			Power of Attoney		
4. x Drawing(s) (35 U.S.	.C. 113) [Total Sheets	6 ]	11.	English	Translation	Document (if ap	plicable)			
5. Oath or Declaration	[ Total Pages	2 ]	12.		ion Disclosunt (IDS)/PT		x	Copies of IDS Citations		
a. x Newly executed (original or copy)			13.	Prelimin	ary Amendr	nent				
b. Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed)			14.	14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)						
	FION OF INVENTOR(S) statement attached deleting	inventor(s)	15.	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)						
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).			16.	16. X Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.						
6. Application Data Sheet. See 37 CFR 1.76				Other:						
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment. or in an Application Data Sheet under 37 CFR 1.76:										
Continuation Divisional Continuation-in-part (CIP) of prior application										
Prior application information: Examiner: Group Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.  The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS										
		emilia in ilia vi in			7					
x Customer Number or Bar Code Label  Correspondence address b							ldress below			
Name	Sandia National Labo	oratories								
Addraga	Intellectual Property Center									
Address City	P.O. Box 5800, Mail : Albuquerque, NM	Stop 0161 Phone:	FAX	<i>/</i> .	T		<del></del> .			
	87185	(505) 284-4 <del>784</del>	1	5) 844-2363						
Country		1								
Name (Print/Type)	Kevin W Bjeg, Regis	tralign No. 40,91	2,			11				
Signature	Www	10 47			Date 1	10103				

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

PTO/SB/17 (12-02)

Approved for use through 09/30/2000. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Patent fines are subject to annual revision.   Small Entity payments must be supported by a small entity statement.   Chenkwise large and type search be supported by a small entity statement.   Coroup / Art Unit	FEE TRANSMITTAL			Complete if Known						
First Named Inventor   Rajen Chanchani		-	Application Number							
First Named Inventor   Rajen Chanchani	EOD EV 2003		Filing Date				November 13, 2003			
Examiner Name   Examiner Nam					or .					
Composition   Commissioner   Commi		1					r tajori o namonam	<del></del>		
METHOD OF PAYMENT (check one)    METHOD OF PAYMENT (check one)						7				
METHOD OF PAYMENT (check one)     The Commissioner is hereby authorized to charge   The Commissioner is charged in the Commissioner   T							007454/000750			
The Commissioner is hereby authorized to charge   1.   Indicated fees and credit any over payments to: Deposit Account   19-0131   19-0131   19-0131   1052   50   2052   25   1051   130   2051   65   130   2051   65   130   1052   130   13	101AL AMOUNT OF PAYMENT (\$)770.00		Attorne	y Doci	et No	·	SD7151/S98758			
The Commissioner is hereby authorized to charge   1.   Indicated fees and credit any over payments to: Deposit Account   19-0131   19-0131   19-0131   1052   50   2052   25   1051   130   2051   65   130   2051   65   130   1052   130   13	METHOD OF PAYMENT (check one)	FEE	E CALCULATION (conti			(contin	nued)			
1.										
Deposit Account   Number   N	. 🖂							Fee		
Charge Any Additional   Sandia National Labs     1052   50   2052   25	Deposit Account 19-0131						Fee Description	Paid		
Sandia National Labs   Charpe Apt Additional   Sandia National Labs   Charpe Apt Additional   Sandia National Labs   Solutional State   Solution						-	- <u>-</u>			
See Required Under 37 CPR 1.18 and 1.17	Name   Sandia National Labs	1052	50	2052	25	Surcharge	- late provisional filing fee cover sheet			
See Required Under 37 CFR 1.18 and 1.17		1053	130			Non-Englis	sh specification			
2. Payment Enclosed:   Money Order   Other   1805   1,840   1,840   1805   1,840   1805   1,840   1805   1,840   1805   1,840   1805   1,840   1805   1,840   1805   1,840   1805   1,840   1,840   1805   1,840   1805   1,840   1805   1,840   1805   1,840										
Check		1804	920*			Requesting	g publication of SIR prior to			
1. BASIC FILING FEE   Care   Entity   Small   Entity   Fee	Check Money Order Other						<b>F</b>			
1252   10   1252   205   Extension for reply within second month   1254   1,450   2254   1252   205   Extension for reply within second month   1254   1,450   2254   1252   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2255   205   Extension for reply within first month   1255   1,970   2250   205   Extension for reply within first month   1255   1,970   2250   205   Extension for reply within first month   1255   1,970   2250   205   Extension for reply within first month   1255   1,970   2250   205   Extension for reply within first month   1255   1,970   2250   205   Extension for reply within first month   1255   1,970   2250   205   Extension for reply within first month   1255   1,970   2250   205   Extension for reply within first month   1255   1,970   2250   205   205   Extension for reply within first month   1255   1,970   2250   205	FEE CALCULATION	1805	1,840			Requesting	publication of SIR after Examiner action			
Fee		1251	110	2251	55	Extension	for reply within first month			
1253   930   2253   485   Extension for reply within third month   1254   1,450   2254   725   Extension for reply within third month   1255   1,970   2255   985   Extension for reply within third month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2255   985   Extension for reply within furth month   1255   1,970   2401   160   Notice of Appeal   1401   320   2402   160   Filing a brief in support of an appeal   1402   2204   142   1,450   2204   2403   140   Request for oral hearing   Petition to institute a public use proceeding   1452   1,510   2452   55   Petition to revive - unavoidable   1453   1,300   2453   650   Petition to revive - unavoidable   1504   1453   1,300   2453   650   Petition to revive - unavoidable   1504   1453   1,300   2453   650   Petition to revive - unavoidable   1504   1453   1,300   2453	Fee Fee Fee Fee Description Fee	1252	410	2252	205	Extension	for reply within second month			
1254   1,450   2254   725   Extension for reply within fourth month   1255   1,970   2255   985   Extension for reply within fourth month   1255   1,970   2255   985   Extension for reply within fifth month   1401   320   2401   160   Notice of Appeal   1402   320   2402   160   Filing a brief in support of an appeal   1403   280   2403   140   Request for oral hearing   Petition to institute a public use proceeding   1452   110   2452   55   Petition to revive - unavoidable   1453   1,300   2453   650   Petition to revive - unavoidable   1453   1,300   2501   645   Utility issue fee (or reissue)   1501   1,300   2501   645   Utility issue fee   1503   630   2503   315   Plant issue fee   1503   630   2503   315   Plant issue fee   1460   130   Petition to revive - unavoidable   1800   1	(,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	1253	930	2253	465	Extension	for reply within third month			
1003   520   2003   260 Plant filing fee   1004   750   2004   375 Reissue filing fee   1005   160   2005   80 Provisional filing fee   1402   320   2401   160   Notice of Appeal   1402   320   2402   160   Filing a brief in support of an appeal   1403   280   2403   140   Request for oral hearing   Petition to revive - unavoidable   1451   1,510   Petition to revive - unavoidable   1451   1,300   2453   650   Petition to revive - unintentional   1501   1,300   2501   645   Utility issue fee (or reissue)   1502   470   2502   235   Design issue fee   1503   630   2503   315   Plant issue fee   130   Petitions to the Commissioner   1808   180   Submission after final rejection (37 CFR 1.129(a))   Other fee (specify)   O		1254	1,450	2254	725	Extension	for reply within fourth month			
1401   320   2401   160   Notice of Appeal   1402   320   2401   160   Notice of Appeal   1402   320   2402   160   Filing a brief in support of an appeal   1403   280   2403   140   Request for oral hearing   1403   280   2403   140   Request for oral hearing   1403   280   2403   140   Request for oral hearing   1404   1405		1255	1,970	2255	985	Extension	for reply within fifth month			
1005 160 2005 80 Provisional filing fee SUBTOTAL (1) \$770.00  2. EXTRA CLAIM FEES  Fee from Extra Claims below Fee Paid Ideal Claims 16	ĭ	1401	320	2401	160	Notice of A	Appeal			
SUBTOTAL (1) \$ 770.00  2. EXTRA CLAIM FEES    Fee from   Extra Claims   below   Fee Paid   1453   1,300   2453   650   Petition to revive - unavoidable   1453   1,300   2453   650   Petition to revive - unintentional   1501   1,300   2501   645   Utility issue fee (or reissue)   1502   470   2502   235   Design issue fee   1503   630   2503   315   Plant issue fee   1460   130   Petitions to the Commissioner   1806   180   Submission of Information Disclosure Stmt   1809   750   2809   375   Filling a submission after final rejection (37 CFR 1.129(a))   1810   750   2810   375   For each additional invention to be examined (see 37 CFR 1.129(b))   Other fee (specify)   Other	·	1402	320	2402	160	Filing a brid	ef in support of an appeal			
1451   1,510		1403	280	2403	140					
1452   110   2452   55   Petition to revive - unavoidable   1453   1,300   2453   650   Petition to revive - unintentional   1501   1,300   2501   645   Utility issue fee (or reissue)   1502   470   2502   235   Design issue fee   1503   630   2503   315   Plant issue fee   1600   130   Petitions to the Commissioner   1806   180   Submission of Information Disclosure Stmt   1809   750   2809   375   Filling a submission after final rejection (37 CFR 1.129(a))   1810   750   2810   375   For each additional invention to be examined (see 37 CFR 1.129(b))   Other fee (specify)   1810   Other fee (specif	SUBTOTAL (1) \$ 770.00	1451	1.510							
Extra Claims below Fee Paid  fotal Claims 16 -20**= X 18 = 0 Independent 3 - 3**= X 84 = 0 Independent	2. EXTRA CLAIM FEES	1452		2452	55		· · · · · ·			
1501   1,300   2501   645   Utility issue fee (or reissue)   1502   470   2502   235   Design issue fee   1503   630   2503   315   Plant issue fee   1503   630   2503   315   Plant issue fee   1460   130   Petitions to the Commissioner   1806   180   Submission of Information Disclosure Stmt   1806   180   Submission after final rejection (37 CFR 1.129(a))   1809   750   2809   375   Filing a submission after final rejection (37 CFR 1.129(a))   1810   750   2810   375   For each additional invention to be examined (see 37 CFR 1.129(b))   Other fee (specify)   Oth										
1502   2502   235   2503   2										
Claims  Multiple Dependent  =					•	-	· · · · · · · · · · · · · · · · · · ·			
**Teissue independent   1460   130   Petitions to the Commissioner   1460   130   Petitions to the Commissioner   1460   130   Petitions to the Commissioner   1806   180   Submission of Information Disclosure Stmt   1806   180   Submission of Information Disclosure Stmt   1809   750   2809   375   Filling a submission after-final rejection (37 CFR 1.129(a))   1809   750   2810   375   For each additional invention to be examined (see 37 CFR 1.129(b))   1810   750   2810   375   For each additional invention to be examined (see 37 CFR 1.129(b))   Other fee (specify)	Claims					•	<del> </del>			
**Tor number previously paid, if greater; For Reissues, see below.  Large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Fee Fee Pee Fee Description  1809 750 2809 375 Filling a submission after final rejection  (37 CFR 1.129(a))  1810 750 2810 375 For each additional invention to be examined (see 37 CFR 1.129(b))  Other fee (specify)	Multiple Dependent =			2000	5.5		· · · · · · · · · · · · · ·			
**reissue independent claims over original patent  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid, if greater; For Reissues, see below.  **Total Number previously paid in the previous pa		1400	130			rentions to	o the Commissioner			
**Tor number previously paid, if greater; For Reissues, see below.  arge Entity Small Entity Fee		1000	400			Cubartest	- of leformation Black	<del></del> -		
arge Entity Small Entity Fee		1806	180			Submissioi	n of Information Disclosure Stmt			
Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Fee   Description (37 CFR 1.129(a))	**or number previously paid, if greater; For Reissues, see below.	4000					<del> </del>			
1202   18   2202   9   Claims in excess of 20   1810   750   2810   375   For each additional invention to be examined (see 37 CFR 1.129(b))		1809	750	2809	375					
1201 84 2201 42 Independent claims in excess of 3   Other fee (specify)   Other fee (s	11	1810	750	2810	375	•	`"			
1203 280 2203 40 Multiple dependent claim, if not paid 1204 84 2204 42 **Reissue independent claims over original patent 1205 18 2205 9 **Reissue claims in excess of 20										
over original patent			Othe	r fee (sp	ecify)					
1205 18 2205 9 **Reissue claims in excess of 20										
and over original patent *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)										
	1		*Red	uced by	Basic	Filing Fee F	Paid SUBTOTAL (3) (\$)			
· · · · · · · · · · · · · · · · · · ·						•		(		
								•		
SUBTOTAL (2) (\$)-0-	SUBTOTAL (2) (\$)-0-									
SUBMITTED BY Complete (if applicable)	SUBMITTED BY Complete (if applicable)							e)		
Typed or		-1	1	B	an					
10,012	Printed Name Kevin W. Bieg	V			$\Rightarrow$	1 1		,912		
Signature Date 1 1003 Deposit Account User ID	Signature			Da	te	1110				

U.S. Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i) First Named Inventor Rajen Chanchani Title Heterogeneously Integrated System-on-a-Chip Atty Docket Number SD7151/S98758

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

Date Vevin Wie Signature

Kevin W. Bieg, No. 40,912 Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Application may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filling within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application** (35 U.S.C. 122(b)(2)(B)(iii)).